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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,431	02/09/2004	Naohiro Kamiya	Q79783	6593
23373	7590 12/12/2006	•	EXAMINER	
SUGHRUE MION, PLLC			LAZORCIK, JASON L	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20037			1731	

DATE MAILED: 12/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)			
Office Action Summary		10/773,431	10/773,431 KAMIYA, NAOHIRO			
		Examiner	Art Unit			
		Jason L. Lazorcik	1731			
 Period for	The MAILING DATE of this communicat Reply	ion appears on the cover sheet w	ith the correspondence	address		
WHICH - Extensi after SI If NO po - Failure Any rep	RTENED STATUTORY PERIOD FOR EVER IS LONGER, FROM THE MAIL ons of time may be available under the provisions of 37 K (6) MONTHS from the mailing date of this communication for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, I by received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ation. y period will apply and will expire SIX (6) MON by statute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this BANDONED (35 U.S.C. § 133).			
Status						
1) 🛛 R	esponsive to communication(s) filed o	n 07 July 2004				
′=	•	☐ This action is non-final.				
′—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	osed in accordance with the practice u	·	•			
		,	·			
	n of Claims					
	laim(s) <u>1-5</u> is/are pending in the applic					
	a) Of the above claim(s) is/are w	vithdrawn from consideration.				
·	laim(s) is/are allowed.					
·	laim(s) <u>1-5</u> is/are rejected.	•				
·	laim(s) is/are objected to.					
8)∐ C	laim(s) are subject to restriction	and/or election requirement.				
Application	n Papers					
9)∏ Tł	ne specification is objected to by the Ex	kaminer.				
•	ne drawing(s) filed on <u>07 July 2004</u> is/a	•	ted to by the Examiner.			
	pplicant may not request that any objection					
	eplacement drawing sheet(s) including the			CFR 1.121(d).		
	ne oath or declaration is objected to by	· · · · · · · · · · · · · · · · · · ·				
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_	der 35 U.S.C. § 119					
•	cknowledgment is made of a claim for t	oreign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).			
′—	All b) Some * c) None of:					
	Certified copies of the priority doc					
2	Certified copies of the priority doc	uments have been received in A	pplication No			
3	. Copies of the certified copies of the	•	received in this Nationa	al Stage		
	application from the International	, ,,				
* Se	e the attached detailed Office action fo	r a list of the certified copies not	received.			
Attachment(s	•					
	of References Cited (PTO-892)		Summary (PTO-413) s)/Mail Date			
	of Draftsperson's Patent Drawing Review (PTO-stion Disclosure Statement(s) (PTO/SB/08)	· · · · /	nformal Patent Application			
	lo(s)/Mail Date <u>07/07/2004</u> .	6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, and 4 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Saito (US 2003/0110803 A1). The instant reference teaches the formation of texture on the polished surface of a glass disk using a texturizing tape (Figure 2, ¶[0016]). The glass substrate, having a preferred composition (¶[0056-0066]) which reads directly upon the claimed composition set forth in claim 4, is subjected to a Chemical Strengthening (Figure 1 – P6) or "chemical treatment" prior to said texturing step (Fig. 1-P7).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said, subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (US 2003/0110803 A1) as applied to claim 1 under 35 USC 102(b) above.

Regarding Claim 2, Sato fails to indicate the use of sodioum hydroxide, potassium hydroxide, and or ammonium fluoride in a chemical treatment step. Saito does however teach that after polishing and prior to immersion in the chemical tempering it is highly desirable to wash residual slurry (polishing agent) from the disk surface. The reference continues by indicating that the washing step should make use of "an acidic aqueous solution or an alkaline aqueous solution and pure water". Aqueous solutions of both sodium hydroxide and potassium hydroxide are well known basic solutions to those of ordinary skill in the art. Since the subsequent chemical tempering step makes use of a mixed nitrate salts of both sodium and postassium, the use of one of the sodium or posassium hydroxide in the preceeding washing step would have been an obvous choice in order to minimize contamination of the tempering bath with different ions.

With respect to claim 5, Saito fails to explicitly recite a step of forming a magnetic layer upon the as fabricated glass disk, however the reference repeatedly indicates (e.g abstract) that said disk is intended for use as a magnetic disk. It would have been readily evident to one of ordinary skill in the art of fabricating magnetic disks and hard drives to deposit a magnetic layer upon the Saito glass disk when using the disk in the recommended application as a magnetic disk.

Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art of particular relevance to the present application is set forth by Saito (US 6,782,717). The associated pre-grant publication (US 2003/0170417) reads directly upon the claimed invention and applicant is strongly advised to consider the material contained therein in reply to this Office Action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason L. Lazorcik whose telephone number is (571) 272-2217. The examiner can normally be reached on Monday through Friday 8:30 am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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JLL

DIONNE A. WALLS PRIMARY EXAMINER

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